

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 11158733
PUBLICATION DATE : 15-06-99

$$\mu (W) \leq 0.2$$

APPLICATION DATE : 26-11-97
APPLICATION NUMBER : 09324797

I

APPLICANT : TOYOBO CO LTD;

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INT.CL. : D01F 8/14 D01D 5/34 D02J 1/22
D04H 1/42 // D04H 1/04

TITLE : POLYESTER STAPLE FOR WET TYPE
NONWOVEN FABRIC HAVING LATENT
CRIMPING DEVELOPMENT AND ITS
PRODUCTION

$$\mu (W) / \mu (D) \leq 0.7$$

II

ABSTRACT : PROBLEM TO BE SOLVED: To obtain the subject staple for providing elastic nonwoven fabric having latent crimping development, light weight and excellent elongation recovery, by spinning a specific polyester A and a prescribed polyester B under specified conditions.

SOLUTION: This staple comprises a side by side type or an eccentric core- sheath type fiber comprising a polyester A composed of a polypropylene terephthalate as a main component and a polyester B composed of a polyethylene terephthalate as a main component and is obtained by melting the components so as to make the ratio of the polyester A to the polyester B of 30/70 to 70/30 by weight at a temperature 10-30°C higher than the melting point of each component, subjecting the polymers to the melt conjugate spinning in a side by side type or eccentric sheath core type, heat-treating the yarn in tension at 100-190°C treatment temperature in a drawing process, providing the yarn with an finishing oil, cutting the yarn into 2-100 mm length to give the a polyester staple for wet type nonwoven fabric satisfying equations 1 and II [$\mu (W)$ is a friction coefficient between fibers in wetness; $\mu (D)$ a friction coefficient between fibers in dryness].

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